

Resolution Engineering, LLC
Translator
Work Order 2009300
Dan Baltzell
November 18, 2009

PEAK LEVELS - FCC 15.231(b) Limits

Frequency (MHz)	Spectrum Analyzer Level A2 red light (dBuV)	Spectrum Analyzer Level A1 green light (dBuV)	Harmonic
319.500	105.6	96.0	Fundamental
639.000	74.0	58.3	2
958.500	65.6	51.6	3
1278.000	55.1	54.1	4

A2 Antenna (red light)

Frequency (MHz)	Spectrum Analyzer Level (Vertical Polarity) (dBuV)	Spectrum Analyzer Level (Horizontal Polarity) (dBuV)	Site Correction Factor (dB/m)	Corrected Analyzer Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
319.500	107.2	106.9	-17.6	89.6	95.9	
639.000	77.2	74.7	-11.0	66.2	75.9	-9.7
958.500	67.2	67.0	-7.9	59.3	75.9	-16.6
1278.000	53.0	58.5	-5.5	53.0	75.9	-22.9
1597.500	54.3	60.9	-3.6	57.3	74.0	-16.7
1917.000	44.8	55.8	-0.6	55.2	75.9	-20.7
2236.500	47.4	49.9	-6.2	43.7	74.0	-30.3
2556.000	47.7	58.9	-7.1	51.8	75.9	-24.1
2875.500	42.4	45.0	-5.6	39.4	74.0	-34.6
3195.000	41.8	37.2	-5.6	36.2	75.9	-39.7

A1 Antenna (green light)

Frequency (MHz)	Spectrum Analyzer Level (Vertical Polarity) (dBuV)	Spectrum Analyzer Level (Horizontal Polarity) (dBuV)	Site Correction Factor (dB/m)	Corrected Analyzer Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
319.500	103.6	99.5	-17.6	86.0	95.9	
639.000	76.8	63.0	-11.0	65.8	75.9	-10.1
958.500	68.3	53.3	-7.9	60.4	75.9	-15.5
1278.000	56.2	55.1	-5.5	50.7	75.9	-25.2
1597.500	57.2	57.7	-3.6	54.1	74.0	-19.9
1917.000	44.6	43.0	-0.6	44.0	75.9	-31.9
2236.500	45.5	48.4	-6.2	42.2	74.0	-31.8
2556.000	54.8	53.6	-7.1	47.7	75.9	-28.2
2875.500	54.4	57.1	-5.6	51.5	74.0	-22.5
3195.000	53.6	50.9	-5.6	48.0	75.9	-27.9

Barcode	Manufacturer	Model	Part Type	Serial Number	Calibration Due
901215	Hewlett Packard	8596EM	Spectrum Analyzer (9kHz-12.8GHz)	3826A00144	10/23/10
901365	MITEQ	JS4-00102600-41-5P	Amplifier, 0.1-26 GHz, 30dB gain	N/A	3/4/2010
901516	Insulated Wire, Inc.	KPS-1503-2400-KPS	RF cable, 20'	NA	10/19/2010
901517	Insulated Wire Inc.	KPS-1503-360-KPS	RF cable 36"	NA	10/19/2010
900791	Chase	CBL6111B	Bilog antenna 30 MHz – 2000 MHz	N/A	12/12/2010
900772	EMCO	3161-02	Horn Antenna 2 - 4 GHz	9804-1044	6/14/2010

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